

In the Claims:

Claims 1-45 . (Cancelled)

Claim 46. (Currently amended) A method of applying an intrinsic co-ordinate system to a mount-and-object system to provide co-ordinated viewing of points on a mounted object imaged using different image gathering processes, the method comprising:

- identifying a plurality of edge points of said mounted object in said mount and object system using automatic image processing,
- interpolating straight lines between said edge points,
- identifying two perpendicular straight lines from said interpolated straight lines,
- identifying a meeting point between said perpendicular straight lines,
- defining said meeting point as an origin for said intrinsic co-ordinate system,
- identifying a marker from a sample being imaged,
- using said marker as a fine-tuning reference relative to said origin, and
- using said co-ordinate system to provide automatic cross-referencing between said points on said object imaged using said different image gathering processes, thereby to provide a co-ordinate reference system which is intrinsic to said mounted object.

Claim 47. (Original) A method according to claim 46, wherein the mount-and-object system has a substantially rectangular outline.

Claims 48-66. (Cancelled)